1: Gene 1993 Dec 8;134(2):295-8 Related Articles, Links

A receptor induced by lymphocyte activation (ILA): a new member of the human nerve-growth-factor/tumor-necrosis-factor receptor family.

Schwarz H, Tuckwell J, Lotz M.

Sam and Rose Stein Institute for Research on Aging, University of California, San Diego, La Jolla 92093-0663.

A 1.4-kb full-length cDNA was isolated from a library constructed from activated human T-cell leukemia virus type 1-transformed human T-lymphocytes. Sequence analysis identified this cDNA as a new member of the human nerve-growth-factor receptor/tumor-necrosis-factor receptor family and as the potential human homologue of the murine sequence, 4-1BB. The gene encodes three cysteine-rich motifs in the extracellular domain which are characteristic of this receptor family, a transmembrane region and a short N-terminal cytoplasmic portion which contains potential phosphorylation sites.

MeSH Terms:

- Amino Acid Sequence
- Animal
- Base Sequence
- DNA
- Human
- Lymphocyte Activation*
- Mice
- Molecular Sequence Data
- Receptors, Cytokine/genetics*
- Receptors, Cytokine/analysis
- Receptors, Nerve Growth Factor/genetics
- Receptors, Tumor Necrosis Factor/genetics
- Sequence Homology, Amino Acid
- Support, U.S. Gov't, P.H.S.
- T-Lymphocytes/immunology*
- T-Lymphocytes/chemistry

Substances:

- DNA

- Receptors, Tumor Necrosis Factor
- Receptors, Nerve Growth Factor
- Receptors, Cytokine
- ILA receptor

Secondary source id:

- GENBANK/Z15048
- GENBANK/Z15047
- GENBANK/X72989
- GENBANK/X72988
- GENBANK/X72987
- GENBANK/X72986
- GENBANK/X72985
- GENBANK/X72887
- GENBANK/L24529
- GENBANK/L12964

Grant support:

- AR39799/AR/NIAMS
- CA51406/CA/NCI

PMID: 8262389 [PubMed - indexed for MEDLINE]

- Membrane Glycoproteins/isolation & purification
- Membrane Glycoproteins/genetics
- Membrane Glycoproteins/chemistry*
- Mice
- Molecular Sequence Data
- Molecular Weight
- Peptide Fragments/metabolism
- Peptide Fragments/genetics
- Polymerase Chain Reaction
- Protein Structure, Tertiary
- RNA, Messenger/analysis
- Receptors, Nerve Growth Factor/isolation & purification
- Receptors, Nerve Growth Factor/genetics
- Receptors, Nerve Growth Factor/chemistry*
- Receptors, Tumor Necrosis Factor/isolation & purification
- Receptors, Tumor Necrosis Factor/genetics
- Receptors, Tumor Necrosis Factor/chemistry*
- Recombinant Fusion Proteins/metabolism
- Sequence Alignment
- Sequence Homology, Amino Acid
- Species Specificity
- Support, Non-U.S. Gov't
- Support, U.S. Gov't, P.H.S.
- T-Lymphocytes/metabolism
- T-Lymphocytes/drug effects
- Tumor Cells, Cultured
- Tumor Necrosis Factor/chemistry*

Substances:

- Tumor Necrosis Factor
- Recombinant Fusion Proteins
- Receptors, Tumor Necrosis Factor
- Receptors, Nerve Growth Factor
- RNA, Messenger
- Peptide Fragments
- Membrane Glycoproteins
- DNA, Complementary
- 4-1BB receptor
- 4-1BB ligand

Grant support:

- AI 28175/AI/NIAID
- AR 40248/AR/NIAMS
- DE 10525/DE/NIDCR

PMID: 7622190 [PubMed - indexed for MEDLINE]

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